

# Simplicity®

*Western Tool*

## 30" REEL MOWER

ARTICLE 058

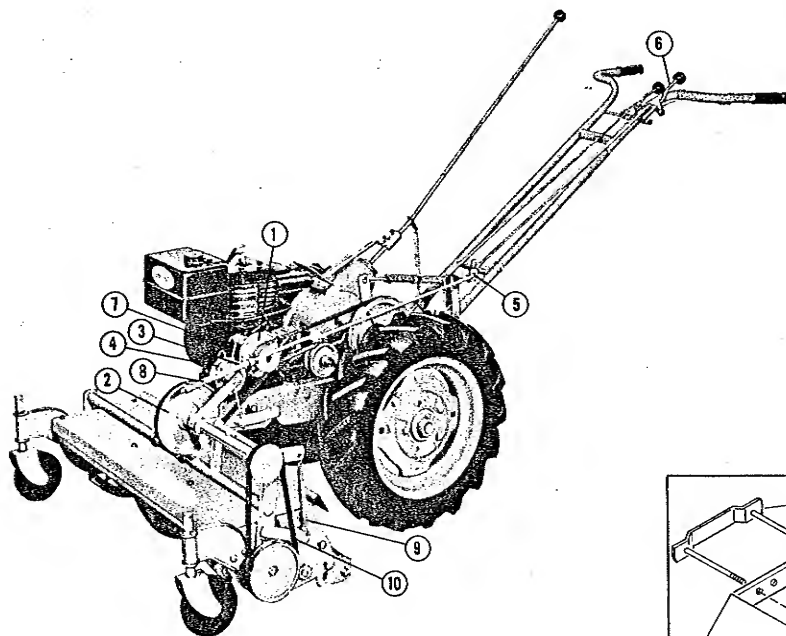


Fig. 1

### PACKING LIST

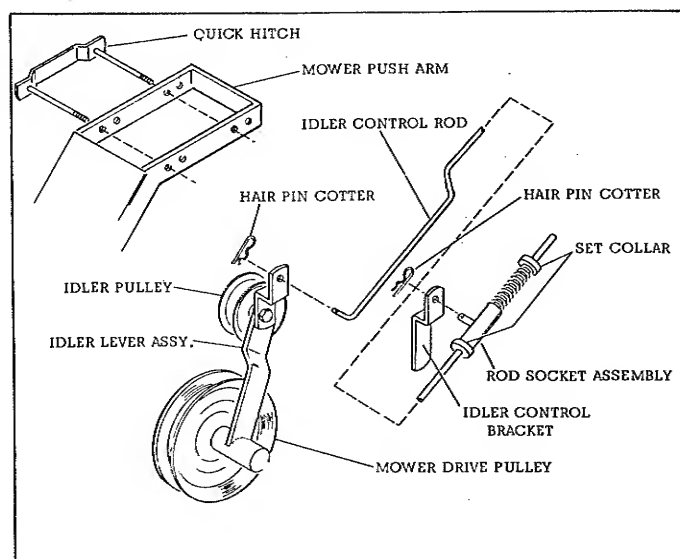
The 30" lawn mower attachment is shipped complete in one carton with clutch lever assembly packed in the carton of tractor handles.

### INSTRUCTIONS FOR ASSEMBLING

1. The 30 inch lawn mower is completely assembled, adjusted and greased when shipped.
2. Attach the mower to the patented Quick-Hitch on the front of the tractor. See special Quick-Hitch instructions in tractor manual.

*NOTE: Quick Hitch is inserted in 1st and 3rd holes from back of push arm for "V" series tractors, and 2nd and 4th holes for "L" and "F" series tractors.*

3. Mount belt on engine pulley (1) and mower pulley (2) under idler pulley and over belt stop as shown.
4. Attach lower idler rod (3) to idler arm (4) and to lower idler lever (5) using the upper hole as shown.
5. With the clutch lever (6) in the farthest back position, set belt stop (7) to within  $\frac{1}{8}$  inch of mower belt. *NOTE: This setting is important if lawn mower is to idle freely.*
6. Adjust clutch tension at the spring (8) on lawn mower idler rod. To avoid damage to cutting unit, keep drive belt tension as light as possible, just enough to maintain reel speed.



### ATTACHING 30" REEL MOWER TO MODEL "W" TRACTOR

The 30" Reel Mower is attached to the Model "W" Tractor by following the instructions as shown above. The only variations in procedure are listed as follows:

1. Install the off-set end of the lower idler control rod into the hole of the idler lever and secure with a hair pin cotter as shown below. Attach the stud on the rod socket assembly to the idler control bracket mounted at the base of the tractor handles. Secure in place with a hair pin cotter. Adjust the tension of the idler pulley against the drive belt by moving the set collar on the idler control rod.
2. The QUICK HITCH is to be installed in the 2nd and 4th holes from the back of the mower push arm.

## REEL DRIVE SLIP CLUTCH

Clutch spring (9) provides proper tension on reel drive belt (10). This spring also serves as a shock absorber and protection to the cutting unit should rocks, sticks or metal objects, etc., become wedged between the knife and cutting reel. Should the reel become obstructed, increased tension of the clutch spring occurs allowing reel drive belt to slip. If this happens, shut off the engine and clear the reel before resuming operation.

## HEIGHT OF CUT ADJUSTMENT

The height of cut is regulated by the roller and caster fork assembly. It is possible to adjust the lawn mower between 1 and 2 inches. This is accomplished by raising or lowering the rear roller and changing setting of the caster fork assemblies. Be sure the roller brackets are at the same level on both sides of the mower. A "wavy" lawn is the result of improper adjustment.

## BLADE ADJUSTMENT

We strongly advise against anyone adjusting your lawn mower unless he is fully competent to do the job. Any mower is apt to damage itself if it is improperly adjusted. Especially is this true if the adjustment is too tight or uneven. This causes undue wear and strains, which can result in broken parts, we again suggest that unless you are competent to adjust your mower you have it done by a competent "Lawn Mower Repairman."

In order that you can easily see the relationship of the cutter bar blade to the reel while making adjustment it is desirable to lay the mower flat on its back.

1. For best adjustment, remove the belt. Loosen lock screws on both sides of the mower (shown at 11) and (12). Then with your fingers turn the adjusting cams (15) simultaneously in the same direction. To tighten the adjustment, move both cams in the direction of the arrow (16). You will notice how the cutter blade (17) moves back and forth in relation to the reel.

(Continued on page 4)

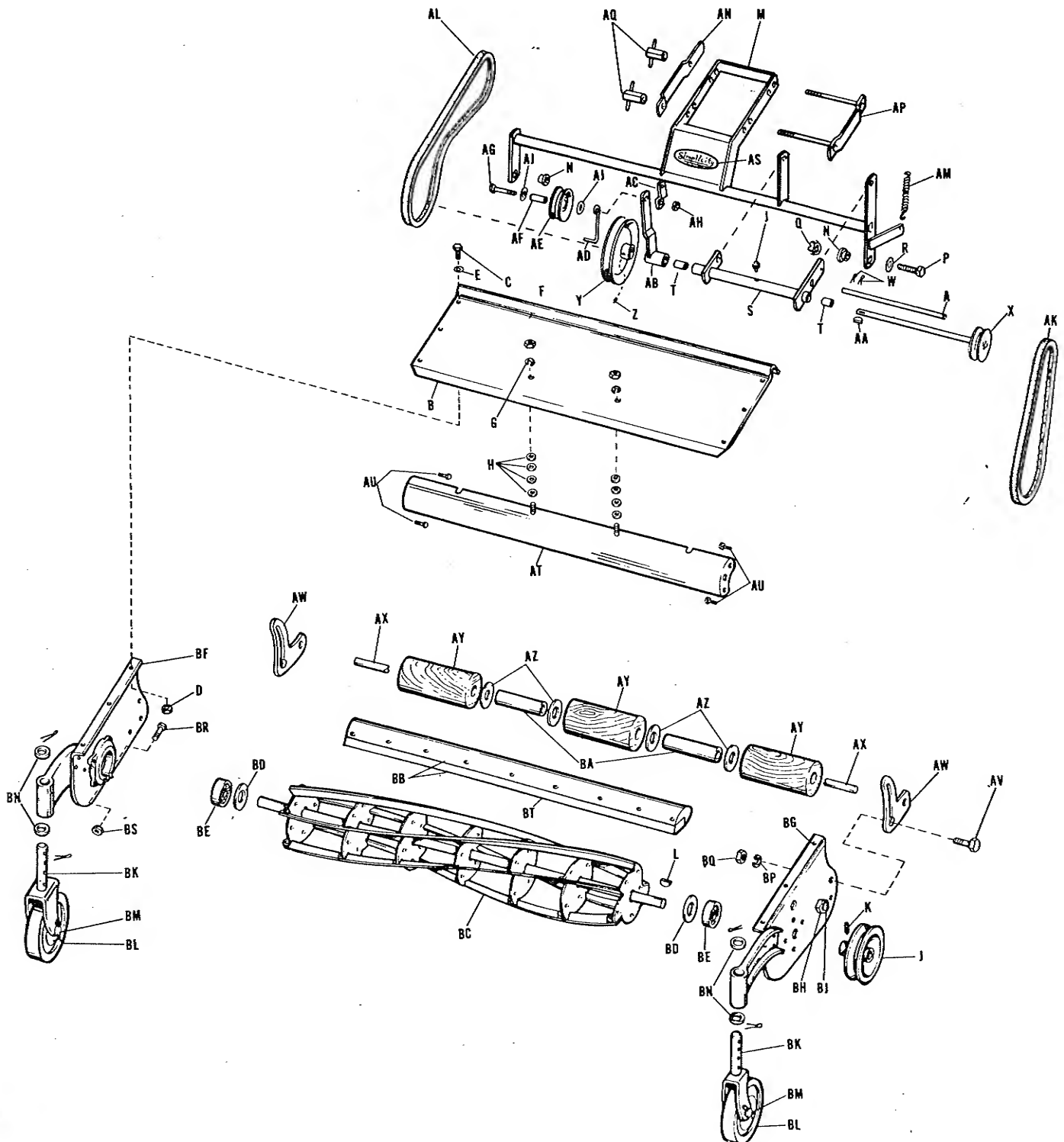
## REPAIR PARTS

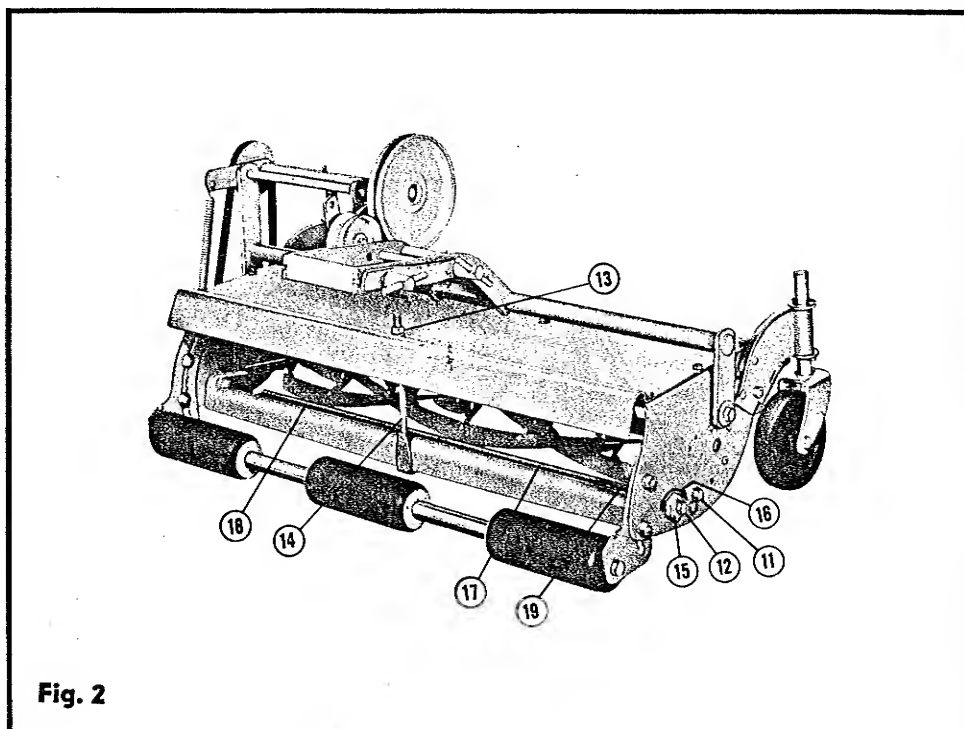
Ref. Letter	Part No.	Description
A	109022	Rod, Pivot
B	109006	Deck
C	705002	Capscrew, Hex Hd.
D	717012	Nut, Hex Jam
E	721502	Washer, Lock
F	717002	Nut, Hex Full
G	721001	Washer, Lock
H	719002	Washer, Plain
J	109021	Sheave, Reel
K	713503	Setscrew, Hollow Hd., Cup Point
L	725003	Key, Woodruff
M	109007	Push Arm Assembly
N	109023	Bushing
P	706009	Capscrew, Hex Head
Q	717512	Nut, Lock, Hex, full
R	719003	Washer, Plain
S	109013	Housing Assembly, Bearing
T	8261052	Bushing
U	727001	Grease Fitting
W	722002	Cotter Pin
X	109016	Shaft Assembly, Pulley
Y	8111013	Sheave
Z	713503	Setscrew, Hollow Head, Cup Point
AA	725003	Key, Woodruff
AB	109019	Lever Assembly, Idler
AC	109030	Bracket, Lever
AD	8161158	Stop, Belt
AE	8051505	Pulley Assembly, Idler
AF	8171073	Race, Inner Bearing
AG	705003	Capscrew, Hex Head
AH	717003	Nut, Hex, Full
AJ	719001	Washer, Plain

Ref. Letter	Part No.	Description
AK	109024	"V" Belt, Reel 30"
AL	8021036	"V" Belt 40"
AM	8111047	Spring
AN	103001	Plate, Hitch Side
AP	8162051	Clamp Assembly, Hitch
AQ	8161041	T-Nut
AS	10652	Decal
AT	LPA-652	Brush Bar Assembly
AU	32-10-2	Capscrew, Hex Hd, 5/16-24 x 5/8
AV		Bolt, Carriage, 3/8-16 x 3/4
AW	LP-753	Roller Bracket
AX	LP-756	Roller Shaft
AY	LP-754	Roller (3 required)
AZ	LP-737	Washer, Roller
BA	LP-757	Spacer, Roller
BB	LP-770	Cutting Bar & Blade Assembly
BC	LPA-515	Reel Assembly, 30"
BD	LP-469	Washer, Reel Bearing
BE	LP-213-7	Ball Bearing
BF	LPA-548	Side Frame Assy., R.H.
BG	LPA-642	Side Frame Assy., L.H.
BH	L-114	Cam, Adjusting
BJ	F5-350	Capscrew, Hex Hd, 3/8-24 x 7/8
BK	LPA-512-1	Caster Yolk Assembly
BL	LP-512	Caster Wheel, w/ Bearing
BM	LP-513	Axle, Caster
BN	F15-650A	Washer
BP		Washer, Lock, 3/8"
BQ		Nut, Hex, 3/8-16
BR		Screw, Fillister Hd, 1/4-20 x 3/4
BS		Nut, Square, 1/4-20
BT	LP-676	Blade, Cutter Bar, w/Rivets

# REPAIR PARTS

## 30" Reel Mower





**Fig. 2**

2. Move the reel until two blades (18) and (19) cross the cutter blade (17) approximately the same distance from each end.

3. Turn the adjusting cams until the cutter blade barely touches the reel on the right and left at the same time, then slightly tighten the cam locking screws (11) and (12). Now move the reel with your hand and check visually and by sound to see if the adjustment is even. If correction in adjustment is needed without loosening the cam locking screws, you can move either end of the cutter blade slightly with the cams and wrench provided. The cutter bar may occasionally need adjusting to compensate for wear. This adjustment is made by means of the screw and nut located under the center of the cutter bar. When the mower is properly adjusted it will lightly touch and cut paper all along the cutter blade.

### **LUBRICATION**

One pressure grease fitting (20) on the lawn mower should be greased each time mower is used. The reel bearings are packed with lubricant and sealed at the factory. No service or lubrication is necessary for the life of the bearings.

### **OPERATION**

When the 30-inch lawn mower is used with the "L" series tractors, high speed is recommended.

When the lawn mower is used with the "F" series tractors, high speed with tractor drive belt in low range is

recommended for average cutting. Medium speed, low range, will give a higher frequency of cut and mower will leave a smoother lawn, but it will not cut tall grass as well. Low speed, with tractor drive belt in high range will cut dandelions and plantain seed stalks better if tractor is run slowly.

When mowing with the "V" series tractors, medium speed is recommended for average cutting. Low speed will give a higher frequency of cut and mower will leave a smoother lawn, but it will not cut tall grass as well. High speed will cut dandelions and plantain seed stalks better if tractor is run slowly.

To show at its best, grass should not be cut too short. 1½ inches is usually regarded as about the minimum, except in special cases, such as creeping bent. Grass should be cut often enough so that the short clipping will settle quickly into the stubble.

If frequent cuttings are maintained, an attractive ribbon effect can be obtained by cutting back and forth across the lawn, but this type of cutting is undesirable if the grass gets too tall. Cutting back and forth under these conditions will throw the clippings from two swaths together into an objectionable windrow. When grass is too tall for back and forth cutting, it should be cut around the plot. As the cutting reel delivers the clippings to the left, right hand turns should be made so that the clippings are evenly distributed over the mowed surface. The three hardwood rollers allow mower to be turned easily.

*Reel  
Mower*

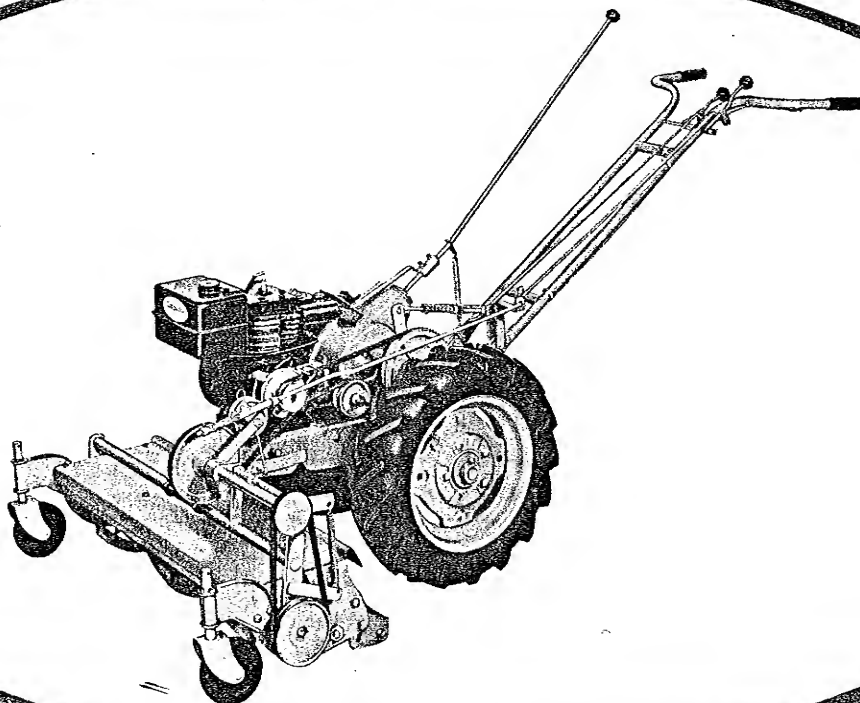
**Simplicity**  
REG. U. S. PAT. OFF.

# 30" REEL TYPE LAWN MOWER

ARTICLE 990058

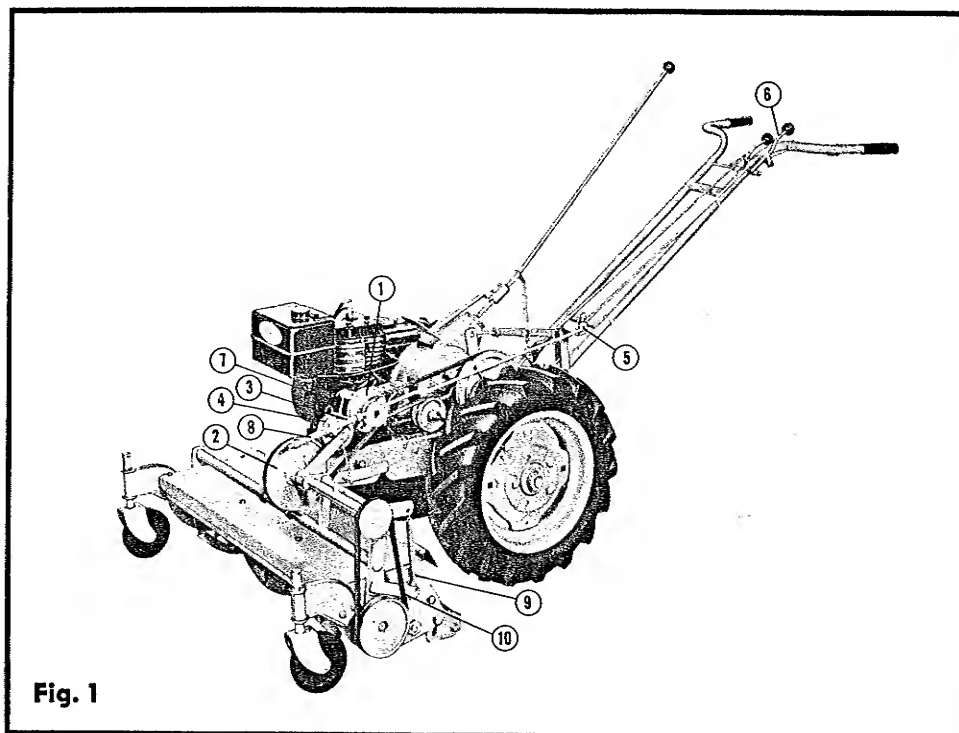
Mfg'd by: *Western Tool*

**INSTRUCTIONS  
AND PARTS LIST**



*Simplicity Manufacturing Company*

• PORT WASHINGTON, WISCONSIN



## 30 INCH REEL LAWN MOWER ATTACHMENT

### PACKING LIST

The 30" lawn mower attachment is shipped complete in one carton with clutch lever assembly packed in the carton of tractor handles.

### INSTRUCTIONS FOR ASSEMBLING

1. The 30 inch lawn mower is completely assembled, adjusted and greased when shipped.
2. Attach the mower to the patented Quick-Hitch on the front of the tractor. See special Quick-Hitch instructions in tractor manual.

*NOTE: Quick Hitch is inserted in 1st and 3rd holes from back of push arm for VA tractor, and 2nd and 4th holes for LB and FB tractors.*

3. Mount belt on engine pulley (1) and mower pulley (2) under idler pulley and over belt stop as shown.
4. Attach lower idler rod (3) to idler arm (4) and to lower idler lever (5) using the upper hole as shown.
5. With the clutch lever (6) in the farthest back position, set belt stop (7) to within 1/8 inch of mower belt. *NOTE: This setting is important if lawn mower is to idle freely.*
6. Adjust clutch tension at the spring (8) on lawn mower idler rod. To avoid damage to cutting unit, keep drive belt tension as light as possible, just enough to maintain reel speed.

### REEL DRIVE SLIP CLUTCH

Clutch spring (9) provides proper tension on reel drive belt (10). This spring also serves as a shock absorber and protection to the cutting unit should rocks, sticks or metal objects, etc., become wedged between the knife and cutting reel. Should the reel become obstructed, increased tension of the clutch spring occurs allowing reel drive belt to slip. If this happens, shut off the engine and clear the reel before resuming operation.

### HEIGHT OF CUT ADJUSTMENT

The height of cut is regulated by the roller and caster fork assembly. It is possible to adjust the lawn mower between 1 and 3 inches. This is accomplished by raising or lowering the rear roller and changing setting of the caster fork assemblies. Be sure the roller brackets are at the same level on both sides of the mower. A "wavy" lawn is the result of improper adjustment.

### BLADE ADJUSTMENT

We strongly advise against anyone adjusting your lawn mower unless he is fully competent to do the job. Any mower is apt to damage itself if it is improperly adjusted. Especially is this true if the adjustment is too tight or uneven. This causes undue wear and strains, which can result in broken parts, we again suggest that unless you are competent to adjust your mower you have it done by a competent "Lawn Mower Repairman."

In order that you can easily see the relationship of the cutter bar blade to the reel while making adjustment it is desirable to lay the mower flat on its back.

1. For best adjustment, remove the belt. Loosen lock screws on both sides of the mower (shown at 11) and (12). Loosen nut at (13) on cutter bar hook (14). Then with your fingers turn the adjusting cams (15) simultaneously in the same direction. To tighten the adjustment, move both cams in the direction of the arrow (16). You will notice how the cutter blade (17) moves back and forth in relation to the reel.
2. Move the reel until two blades (18) and (19) cross the cutter blade (17) approximately the same distance from each end.
3. Turn the adjusting cams until the cutter blade barely touches the reel on the right and left at the same time, then slightly tighten the cam locking screws (11) and (12). Now move the reel with your hand and check visually and by sound to see if the adjustment is even.



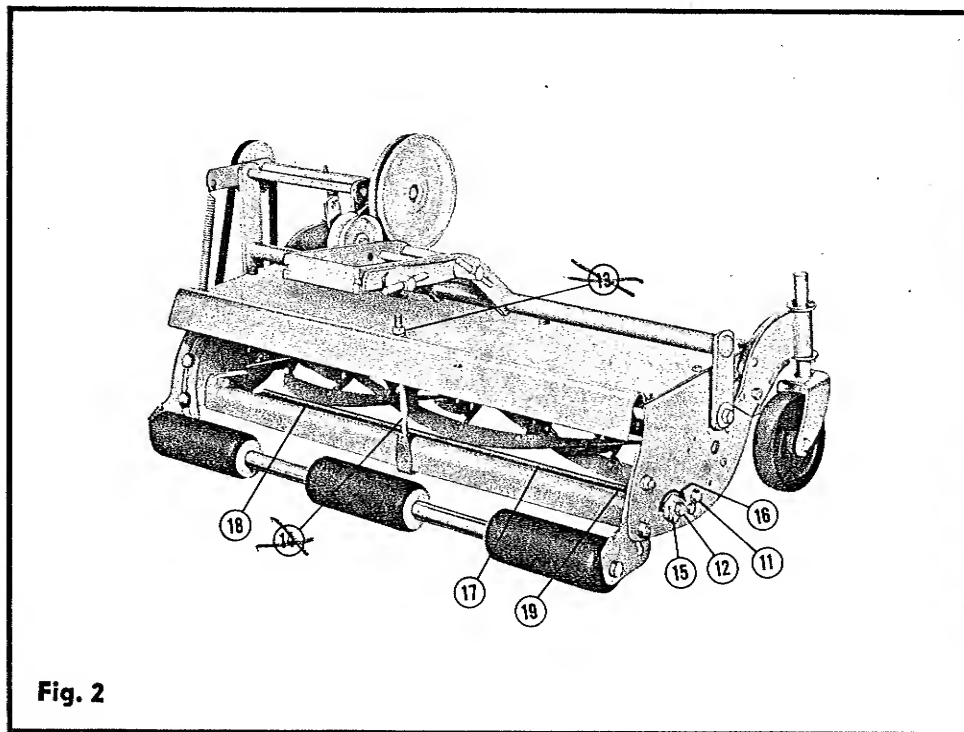


Fig. 2

*the cutter bar may be adjusted by means of the screw and must be centered under the center of the reel.*

If correction in adjustment is needed without loosening the cam locking screws, you can move either end of the cutter blade slightly with the cams and wrench provided. Tighten nut at (13) to compress spring slightly. Occasional adjustment of the cutter bar hook (14) may be required to compensate for wear. Adjustment is made at nut (13). When the mower is properly adjusted it will lightly touch and cut paper all along the cutter blade.

### LUBRICATION

One pressure grease fitting (20) on the lawn mower should be greased each time mower is used. The reel bearings are packed with lubricant and sealed at the factory. No service or lubrication is necessary for the life of the bearings.

### OPERATION

When the 30-inch lawn mower is used with the Model LB tractor, high speed is recommended.

When the lawn mower is used with the Model FB tractor, high speed with tractor drive belt in low range is recommended for average cutting. Medium speed, low range, will give a higher frequency of cut and mower will leave a smoother lawn, but it will not cut tall grass as well. Low speed, with tractor drive belt in high range will cut dandelions and plantain seed stalks better if tractor is run slowly.

When mowing with the Model VA tractor, medium speed is recommended for average cutting. Low speed will give a higher frequency of cut and mower will leave a smoother lawn, but it will not cut tall grass as well. High speed will cut dandelions and plantain seed stalks better if tractor is run slowly.

To show at its best, grass should not be cut too short. 1½ inches is usually regarded as about the minimum, except in special cases, such as creeping bent. Grass should be cut often enough so that the short clipping will settle quickly into the stubble.

If frequent cuttings are maintained, an attractive ribbon effect can be obtained by cutting back and forth across the lawn, but this type of cutting is undesirable if the grass gets too tall. Cutting back and forth under these conditions will throw the clippings from two swaths together into an objectionable windrow. When grass is too tall for back and forth cutting, it should be cut around the plot. As the cutting reel delivers the clippings to the left, right hand turns should be made so that the clippings are evenly distributed over the mowed surface. The three hardwood rollers allow mower to be turned easily.

### How to Order Repair Parts for Simplicity Garden Tractors and Attachments

The Authorized Simplicity dealer from whom you purchased your tractor and attachments can supply you with any replacement parts you may need. For prompt service, be sure to see your dealer first. He will furnish the correct parts from his stock or order them for you if necessary. However, you may mail-order directly from the factory.

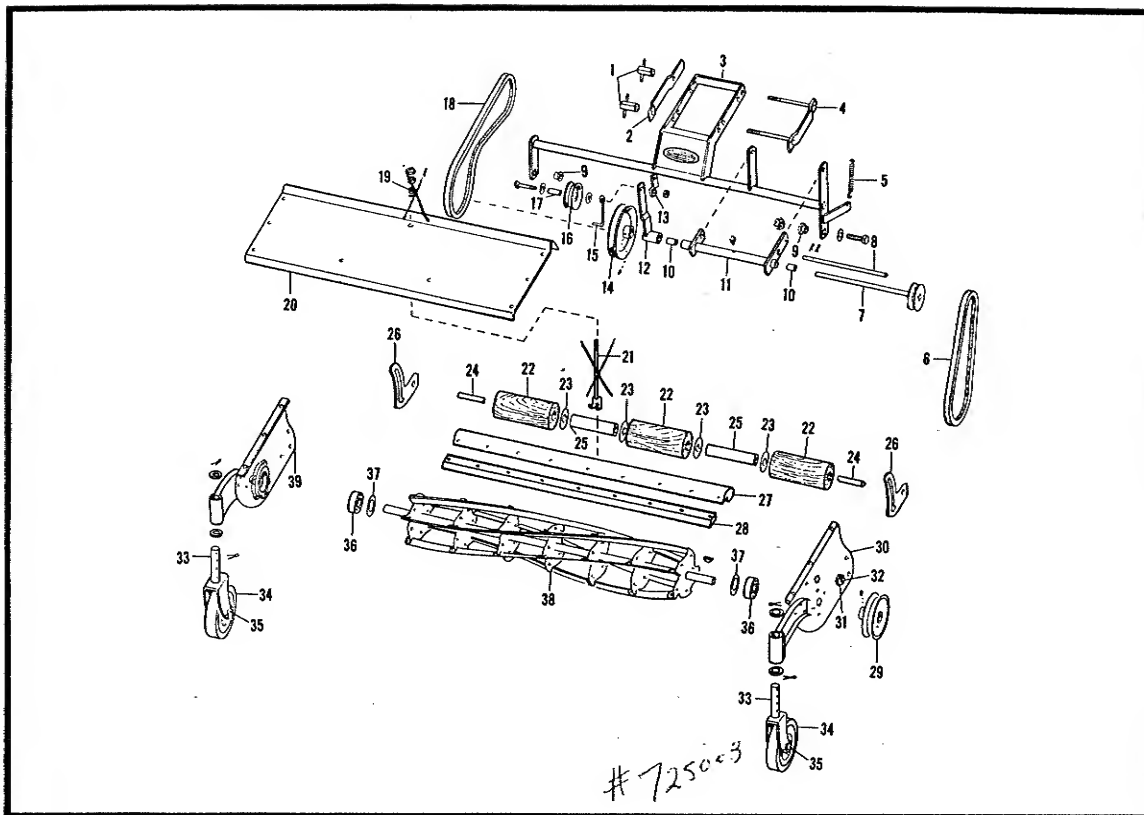
To have your order filled correctly and for prompt service, please furnish the following information:

1. Model, number and year of purchase of tractor or attachment.
2. Part number, description, and quantity of part. (See parts list)

Be sure to include postage with your order. We do not pay transportation charges. Shipping weights are shown. Any excess will be promptly refunded.

We reserve the right to change construction, specifications, prices and terms, without notice and without obligation as to tractors and attachments heretofore shipped.

PRICES SHOWN ARE U.S.A. PRICES. PRICES OUTSIDE OF U.S.A. SUBJECT TO LOCAL IMPORT DUTIES, TAXES, ETC.



## REPAIR PARTS

### 30" Reel Lawn Mower

Order by Part Number

Item No.	Part No.	Description:	Weight		Price Each
			Lbs.	Oz.	
1	S1-A41A - 8161041	T-Nut Complete		8	\$ .50
2	103001	Plate — Hitch Side		12	.15
3	109007	Arm Assy. — Push	15		12.50
4	S1-BX1 - 8162501	Clamp Assy. — Hitch	1		1.00
5	P-A47 - 8111047	Spring		3	.20
6	109024	"V" Belt — Reel — 30" long	1		2.60
7	109016	Shaft Assy. — Pulley	2		3.25
8	109022	Rod — Pivot	1		.50
9	109023	Bushing		3	.55
10	SS-A52 - 8261052	Bushing		3	.55
11	109013	Housing Assy. — Brg.	2	5	3.00
12	109019	Lever Assy. — Idler	1	3	2.00
13	109030	Bracket — Lever		12	.25
14	P-A13 - 8111013	Sheave	3	6	2.45
15	S1-A158 - 8161158	Stop — Belt		4	.15
16	F-AX5 - 8051505	Pulley Assy. — Idler		12	1.00
17	S1L-A73 - 8171073	Race — Inner Brg.		4	.40
18	D-A36 - 8021036	"V" Belt — 40" long	1	4	1.44
19	S2-A47	Spring		2	.20
20	109006	Deck	20		7.75
21	109025	Hopk-Assy. — Cutter-Bar	2	4	1.10
22	LP-754 -	Roller (3 required)		13	.80
23	LP-737 -	Washer — Roller		1	.05
24	LP-756 -	Roller Shaft	2	8	2.00
25	LP-757 -	Spacer — Roller	1	4	.50
26	LP-753 -	Bracket — Roller		5	.60
27	LP-610 -	Cutter Bar	13		14.00
28	LP-676 -	Cutter Bar Blade — with Rivets	2		3.75
29	109021 -	Sheave — Reel	2	6	2.20
30	LPA-647 - 10647	Side Frame — L. H.	4		5.50
31	L-114 - 4114	Adjusting Cam		3	.50
32	F5-350	Hex. Hd. Cap Screw 3/8-24 x 7/8		5	.10
33	LPA-512-1 - 20225	Caster Yoke Assembly	3	1	1.50
34	LP-512	Caster Wheel w/Bearings	3	5	2.00
35	LP-513	Caster Axle	3		.25
36	LP-215-7 - 22257	Ball Bearing		3	2.15
37	LP-469	Reel Bearing Washer		1	.10
38	LPA-515 - 10515	Reel Assembly — 30"	16		20.00
39	LPA-648 - 10648	Side Frame — R. H.	4		5.50